



SEQUENCE LISTING

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JIANG, WANPING

<120> IDENTIFICATION OF DEC, A RECEPTOR WITH
C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS
ENCODING DEC, AND USES THEREOF

<130> RUJ-001CNRCE2

<140> 09/586,704

<141> 2000-06-05

<150> 08/381,528

<151> 1995-01-31

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<223> C terminal DEC-205

<400> 1

Arg His Arg Leu His Leu Ala Gly Phe Ser Ser Val Arg Tyr Ala Gln
1 5 10 15

Gly Val Asn Glu Asp Glu Ile Met Leu Pro Ser Phe His Asp
20 25 30

<210> 2

<211> 25

<212> PRT

<213> Mus musculus

<220>

<223> N terminal DEC-205

<400> 2

Ser Glu Ser Ser Gly Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr
1 5 10 15

Gly Lys Cys Ile Gln Pro Leu Phe Asp
20 25

<210> 3
 <211> 1723
 <212> PRT
 <213> Mus musculus

 <220>
 <223> Predicted DEC-205

 <400> 3
 Met Arg Thr Gly Arg Val Thr Pro Gly Leu Ala Ala Gly Leu Leu Leu
 1 5 10 15

 Leu Leu Leu Arg Ser Phe Gly Leu Val Glu Pro Ser Glu Ser Ser Gly
 20 25 30

 Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr Gly Lys Cys Ile Gln
 35 40 45

 Pro Leu Ser Asp Trp Val Val Ala Gln Asp Cys Ser Gly Thr Asn Asn
 50 55 60

 Met Leu Trp Lys Trp Val Ser Gln His Arg Leu Phe His Leu Glu Ser
 65 70 75 80

 Gln Lys Cys Leu Gly Leu Asp Ile Thr Lys Ala Thr Asp Asn Leu Arg
 85 90 95

 Met Phe Ser Cys Asp Ser Thr Val Met Leu Trp Trp Lys Cys Glu His
 100 105 110

 His Ser Leu Tyr Thr Ala Ala Gln Tyr Arg Leu Ala Leu Lys Asp Gly
 115 120 125

 Tyr Ala Val Ala Asn Thr Asn Thr Ser Asp Val Trp Lys Lys Gly Gly
 130 135 140

 Ser Glu Glu Asn Leu Cys Ala Gln Pro Tyr His Glu Ile Tyr Thr Arg
 145 150 155 160

 Asp Gly Asn Ser Tyr Gly Arg Pro Cys Glu Phe Pro Phe Leu Ile Gly
 165 170 175

 Glu Thr Trp Tyr His Asp Cys Ile His Asp Glu Asp His Ser Gly Pro
 180 185 190

Trp Cys Ala Thr Thr Leu Ser Tyr Glu Tyr Asp Gln Lys Trp Gly Ile
195 200 205

Cys Leu Leu Pro Glu Ser Gly Cys Glu Gly Asn Trp Glu Lys Asn Glu
210 215 220

Gln Ile Gly Ser Cys Tyr Gln Phe Asn Asn Gln Glu Ile Leu Ser Trp
225 230 235 240

Lys Glu Ala Tyr Val Ser Cys Gln Asn Gln Gly Ala Asp Leu Leu Ser
245 250 255

Ile His Ser Ala Ala Glu Leu Ala Tyr Ile Thr Gly Lys Glu Asp Ile
260 265 270

Ala Arg Leu Val Trp Leu Gly Leu Asn Gln Leu Tyr Ser Ala Arg Gly
275 280 285

Trp Glu Trp Ser Asp Phe Arg Pro Leu Lys Phe Leu Asn Trp Asp Pro
290 295 300

Gly Thr Pro Val Ala Pro Val Ile Gly Gly Ser Ser Cys Ala Arg Met
305 310 315 320

Asp Thr Glu Ser Gly Leu Trp Gln Ser Val Ser Cys Glu Ser Gln Gln
325 330 335

Pro Tyr Val Cys Lys Lys Pro Leu Asn Asn Thr Leu Glu Leu Pro Asp
340 345 350

Val Trp Thr Tyr Thr Asp Thr His Cys His Val Gly Trp Leu Pro Asn
355 360 365

Asn Gly Phe Cys Tyr Leu Leu Ala Asn Glu Ser Ser Ser Trp Asp Ala
370 375 380

Ala His Leu Lys Cys Lys Ala Phe Gly Ala Asp Leu Ile Ser Met His
385 390 395 400

Ser Leu Ala Asp Val Glu Val Val Val Thr Lys Leu His Asn Gly Asp
405 410 415

Val Lys Lys Glu Ile Trp Thr Gly Leu Lys Asn Thr Asn Ser Pro Ala

420	425	430
Leu Phe Gln Trp Ser Asp Gly Thr Glu Val Thr Leu Thr Tyr Trp Asn 435 440 445		
Glu Asn Glu Pro Ser Val Pro Phe Asn Lys Thr Pro Asn Cys Val Ser 450 455 460		
Tyr Leu Gly Lys Leu Gly Gln Trp Lys Val Gln Ser Cys Glu Lys Lys 465 470 475 480		
Leu Arg Tyr Val Cys Lys Lys Lys Gly Glu Ile Thr Lys Asp Ala Glu 485 490 495		
Ser Asp Lys Leu Cys Pro Pro Asp Glu Gly Trp Lys Arg His Gly Glu 500 505 510		
Thr Cys Tyr Lys Ile Tyr Glu Lys Glu Ala Pro Phe Gly Thr Asn Cys 515 520 525		
Asn Leu Thr Ile Thr Ser Arg Phe Glu Gln Glu Phe Leu Asn Tyr Met 530 535 540		
Met Lys Asn Tyr Asp Lys Ser Leu Arg Lys Tyr Phe Trp Thr Gly Leu 545 550 555 560		
Arg Asp Pro Asp Ser Arg Gly Glu Tyr Ser Trp Ala Val Ala Gln Gly 565 570 575		
Val Lys Gln Ala Val Thr Phe Ser Asn Trp Asn Phe Leu Glu Pro Ala 580 585 590		
Ser Pro Gly Gly Cys Val Ala Met Ser Thr Gly Lys Thr Leu Gly Lys 595 600 605		
Trp Glu Val Lys Asn Cys Arg Ser Phe Arg Ala Leu Ser Ile Cys Lys 610 615 620		
Lys Val Ser Glu Pro Gln Glu Pro Glu Glu Ala Ala Pro Lys Pro Asp 625 630 635 640		
Asp Pro Cys Pro Glu Gly Trp His Thr Phe Pro Ser Ser Leu Ser Cys 645 650 655		

Tyr Lys Val Phe His Ile Glu Arg Ile Val Arg Lys Arg Asn Trp Glu
 660 665 670

Glu Ala Glu Arg Phe Cys Gln Ala Leu Gly Ala His Leu Pro Ser Phe
 675 680 685

Ser Arg Arg Glu Glu Ile Lys Asp Phe Val His Leu Leu Lys Asp Gln
 690 695 700

Phe Ser Gly Gln Arg Trp Leu Trp Ile Gly Leu Asn Lys Arg Ser Pro
 705 710 715 720

Asp Leu Gln Gly Ser Trp Gln Trp Ser Asp Arg Thr Pro Val Ser Ala
 725 730 735

Val Met Met Glu Pro Glu Phe Gln Gln Asp Phe Asp Ile Arg Asp Cys
 740 745 750

Ala Ala Ile Lys Val Leu Asp Val Pro Trp Arg Arg Val Trp His Leu
 755 760 765

Tyr Glu Asp Lys Asp Tyr Ala Tyr Trp Lys Pro Phe Ala Cys Asp Ala
 770 775 780

Lys Leu Glu Trp Val Cys Gln Ile Pro Lys Gly Ser Thr Pro Gln Met
 785 790 795 800

Pro Asp Trp Tyr Asn Pro Glu Arg Thr Gly Ile His Gly Pro Pro Val
 805 810 815

Ile Ile Glu Gly Ser Glu Tyr Trp Phe Val Ala Asp Pro His Leu Asn
 820 825 830

Tyr Glu Glu Ala Val Leu Tyr Cys Ala Ser Asn His Ser Phe Leu Ala
 835 840 845

Thr Ile Thr Ser Phe Thr Gly Leu Lys Ala Ile Lys Asn Lys Leu Ala
 850 855 860

Asn Ile Ser Gly Glu Glu Gln Lys Trp Trp Val Lys Thr Ser Glu Asn
 865 870 875 880

Pro Ile Asp Arg Tyr Phe Leu Gly Ser Arg Arg Arg Leu Trp His His
885 890 895

Phe Pro Met Thr Phe Gly Asp Glu Cys Leu His Met Ser Ala Lys Thr
900 905 910

Trp Leu Val Asp Leu Ser Lys Arg Ala Asp Cys Asn Ala Lys Leu Pro
915 920 925

Phe Ile Cys Glu Arg Tyr Asn Val Ser Ser Leu Glu Lys Tyr Ser Pro
930 935 940

Asp Pro Ala Ala Lys Val Gln Cys Thr Glu Lys Trp Ile Pro Phe Gln
945 950 955 960

Asn Lys Cys Phe Leu Lys Val Asn Ser Gly Pro Val Thr Phe Ser Gln
965 970 975

Ala Ser Gly Ile Cys His Ser Tyr Gly Gly Thr Leu Pro Ser Val Leu
980 985 990

Ser Arg Gly Glu Gln Asp Phe Ile Ile Ser Leu Leu Pro Glu Met Glu
995 1000 1005

Ala Ser Leu Trp Ile Gly Leu Arg Trp Thr Ala Tyr Glu Arg Ile
1010 1015 1020

Asn Arg Trp Thr Asp Asn Arg Glu Leu Thr Tyr Ser Asn Phe His
1025 1030 1035

Pro Leu Leu Val Gly Arg Arg Leu Ser Ile Pro Thr Asn Phe Phe
1040 1045 1050

Asp Asp Glu Ser His Phe His Cys Ala Leu Ile Leu Asn Leu Lys
1055 1060 1065

Lys Ser Pro Leu Thr Gly Thr Trp Asn Phe Thr Ser Cys Ser Glu
1070 1075 1080

Arg His Ser Leu Ser Leu Cys Gln Lys Tyr Ser Glu Thr Glu Asp
1085 1090 1095

Gly	Gln	Pro	Trp	Glu	Asn	Thr	Ser	Lys	Thr	Val	Lys	Tyr	Leu	Asn
1100						1105					1110			
Asn	Leu	Tyr	Lys	Ile	Ile	Ser	Lys	Pro	Leu	Thr	Trp	His	Gly	Ala
1115						1120					1125			
Leu	Lys	Glu	Cys	Met	Lys	Glu	Lys	Met	Arg	Leu	Val	Ser	Ile	Thr
1130						1135					1140			
Asp	Pro	Tyr	Gln	Gln	Ala	Phe	Leu	Ala	Val	Gln	Ala	Thr	Leu	Arg
1145						1150					1155			
Asn	Ser	Ser	Phe	Trp	Ile	Gly	Leu	Ser	Ser	Gln	Asp	Asp	Glu	Leu
1160						1165					1170			
Asn	Phe	Gly	Trp	Ser	Asp	Gly	Lys	Arg	Leu	Gln	Phe	Ser	Asn	Trp
1175						1180					1185			
Ala	Gly	Ser	Asn	Glu	Gln	Leu	Asp	Asp	Cys	Val	Ile	Leu	Asp	Thr
1190						1195					1200			
Asp	Gly	Phe	Trp	Lys	Thr	Ala	Asp	Cys	Asp	Asp	Asn	Gln	Pro	Gly
1205						1210					1215			
Ala	Ile	Cys	Tyr	Tyr	Pro	Gly	Asn	Glu	Thr	Glu	Glu	Glu	Val	Arg
1220						1225					1230			
Ala	Leu	Asp	Thr	Ala	Lys	Cys	Pro	Ser	Pro	Val	Gln	Ser	Thr	Pro
1235						1240					1245			
Trp	Ile	Pro	Phe	Gln	Asn	Ser	Cys	Tyr	Asn	Phe	Met	Ile	Thr	Asn
1250						1255					1260			
Asn	Arg	His	Lys	Thr	Val	Thr	Pro	Glu	Glu	Val	Gln	Ser	Thr	Cys
1265						1270					1275			
Glu	Lys	Leu	His	Pro	Lys	Ala	His	Ser	Leu	Ser	Ile	Arg	Asn	Glu
1280						1285					1290			
Glu	Glu	Asn	Thr	Phe	Val	Val	Glu	Gln	Leu	Leu	Tyr	Phe	Asn	Tyr
1295						1300					1305			
Ile	Ala	Ser	Trp	Val	Met	Leu	Gly	Ile	Thr	Tyr	Glu	Asn	Asn	Ser

1310		1315		1320
Leu Met Trp Phe Asp Lys Thr Ala Leu Ser Tyr Thr His Trp Arg				
1325		1330		1335
Thr Gly Arg Pro Thr Val Lys Asn Gly Lys Phe Leu Ala Gly Leu				
1340		1345		1350
Ser Thr Asp Gly Phe Trp Asp Ile Gln Ser Phe Asn Val Ile Glu				
1355		1360		1365
Glu Thr Leu His Phe Tyr Gln His Ser Ile Ser Ala Cys Lys Ile				
1370		1375		1380
Glu Met Val Asp Tyr Glu Asp Lys His Asn Gly Thr Leu Pro Gln				
1385		1390		1395
Phe Ile Pro Tyr Lys Asp Gly Val Tyr Ser Val Ile Gln Lys Lys				
1400		1405		1410
Val Thr Trp Tyr Glu Ala Leu Asn Ala Cys Ser Gln Ser Gly Gly				
1415		1420		1425
Glu Leu Ala Ser Val His Asn Pro Asn Gly Lys Leu Phe Leu Glu				
1430		1435		1440
Asp Ile Val Asn Arg Asp Gly Phe Pro Leu Trp Val Gly Leu Ser				
1445		1450		1455
Ser His Asp Gly Ser Glu Ser Ser Phe Glu Trp Ser Asp Gly Arg				
1460		1465		1470
Ala Phe Asp Tyr Val Pro Trp Gln Ser Leu Gln Ser Pro Gly Asp				
1475		1480		1485
Cys Val Val Leu Tyr Pro Lys Gly Ile Trp Arg Arg Glu Lys Cys				
1490		1495		1500
Leu Ser Val Lys Asp Gly Ala Ile Cys Tyr Lys Pro Thr Lys Asp				
1505		1510		1515
Lys Lys Leu Ile Phe His Val Lys Ser Ser Lys Cys Pro Val Ala				
1520		1525		1530

Lys Arg Asp Gly Pro Gln Trp Val Gln Tyr Gly Gly His Cys Tyr
 1535 1540 1545

Ala Ser Asp Gln Val Leu His Ser Phe Ser Glu Ala Lys Gln Val
 1550 1555 1560

Cys Gln Glu Leu Asp His Ser Ala Thr Val Val Thr Ile Ala Asp
 1565 1570 1575

Glu Asn Glu Asn Lys Phe Val Ser Arg Leu Met Arg Glu Asn Tyr
 1580 1585 1590

Asn Ile Thr Met Arg Val Trp Leu Gly Leu Ser Gln His Ser Leu
 1595 1600 1605

Asp Gln Ser Trp Ser Trp Leu Asp Gly Leu Asp Val Thr Phe Val
 1610 1615 1620

Lys Trp Glu Asn Lys Thr Lys Asp Gly Asp Gly Lys Cys Ser Ile
 1625 1630 1635

Leu Ile Ala Ser Asn Glu Thr Trp Arg Lys Val His Cys Ser Arg
 1640 1645 1650

Gly Tyr Ala Arg Ala Val Cys Lys Ile Pro Leu Ser Pro Asp Tyr
 1655 1660 1665

Thr Gly Ile Ala Ile Leu Phe Ala Val Leu Cys Leu Leu Gly Leu
 1670 1675 1680

Ile Ser Leu Ala Ile Trp Phe Leu Leu Gln Arg Ser His Ile Arg
 1685 1690 1695

Trp Thr Gly Phe Ser Ser Val Arg Tyr Glu His Gly Thr Asn Glu
 1700 1705 1710

Asp Glu Val Met Leu Pro Ser Phe His Asp
 1715 1720

<210> 4
 <211> 1462
 <212> PRT

<213> Bos Taurus

<220>

<223> PLA2 receptor

<400> 4

Met Pro Leu Leu Ser Leu Ser Leu Leu Leu Leu Leu Leu Gln Val Pro
1 5 10 15

Ala Gly Ser Ala Glu Thr Ala Ala Trp Ala Val Thr Pro Glu Arg Leu
20 25 30

Arg Glu Trp Gln Asp Lys Gly Ile Phe Ile Ile Gln Ser Glu Asn Leu
35 40 45

Glu Lys Cys Ile Gln Ala Ser Lys Ser Thr Leu Thr Leu Glu Asn Cys
50 55 60

Lys Pro Pro Asn Lys Tyr Met Leu Trp Lys Trp Val Ser Asn His Arg
65 70 75 80

Leu Phe Asn Ile Gly Gly Ser Gly Cys Leu Gly Leu Asn Val Ser Ser
85 90 95

Pro Glu Gln Pro Leu Ser Ile Tyr Glu Cys Asp Ser Thr His Val Ser
100 105 110

Leu Lys Trp His Cys Asn Lys Lys Thr Ile Thr Gly Pro Leu Gln Tyr
115 120 125

Leu Val Gln Val Lys Gln Asp Asn Thr Leu Val Ala Ser Arg Lys Tyr
130 135 140

Leu His Lys Trp Val Ser Tyr Met Ser Gly Gly Gly Gly Ile Cys Asp
145 150 155 160

Tyr Leu His Lys Asp Leu Tyr Thr Ile Lys Gly Asn Ala His Gly Thr
165 170 175

Pro Cys Met Phe Pro Phe Gln Tyr Asn Gln Gln Trp His His Glu Cys
180 185 190

Thr Arg Glu Gly Arg Glu Asp Asn Leu Leu Trp Cys Ala Thr Thr Ser
195 200 205

Arg Tyr Glu Arg Asp Glu Lys Trp Gly Phe Cys Pro Asp Pro Thr Ser
 210 215 220

Thr Glu Val Gly Cys Asp Ala Val Trp Glu Lys Asp Leu His Ser Arg
 225 230 235 240

Ile Cys Tyr Gln Phe Asn Leu Leu Ser Ser Leu Ser Trp Ser Glu Ala
 245 250 255

His Ser Ser Cys Gln Met Gln Gly Ala Ala Leu Leu Ser Ile Ala Asp
 260 265 270

Glu Thr Glu Glu Asn Phe Val Arg Lys His Leu Gly Ser Glu Ala Val
 275 280 285

Glu Val Trp Met Gly Leu Asn Gln Leu Asp Glu Asp Ala Gly Trp Gln
 290 295 300

Trp Ser Asp Arg Thr Pro Leu Asn Tyr Leu Asn Trp Lys Pro Glu Ile
 305 310 315 320

Asn Phe Glu Pro Phe Val Glu Tyr His Cys Gly Thr Phe Asn Ala Phe
 325 330 335

Met Pro Lys Ala Trp Lys Ser Arg Asp Cys Glu Ser Thr Leu Pro Tyr
 340 345 350

Val Cys Lys Lys Tyr Leu Asn Pro Thr Asp His Gly Val Val Glu Lys
 355 360 365

Asp Ala Trp Lys Tyr Tyr Ala Thr His Cys Glu Pro Gly Trp Asn Pro
 370 375 380

His Asn Arg Asn Cys Tyr Lys Leu Gln Lys Glu Lys Lys Thr Trp Asn
 385 390 395 400

Glu Ala Leu Gln Ser Cys Gln Ser Asn Asn Ser Val Leu Thr Asp Ile
 405 410 415

Thr Ser Leu Ala Glu Val Glu Phe Leu Val Thr Leu Leu Gly Asp Glu
 420 425 430

Asn Ala Ser Glu Thr Trp Ile Gly Leu Ser Ser His Lys Ile Pro Val
 435 440 445

Ser Phe Glu Trp Ser Asn Gly Ser Ser Val Thr Phe Thr Asn Trp His
 450 455 460

Thr Leu Glu Pro His Ile Phe Pro Asn Arg Ser Gln Leu Cys Val Ser
 465 470 475 480

Ala Glu Gln Ser Glu Gly His Trp Lys Val Lys Asn Cys Glu Glu Thr
 485 490 495

Leu Phe Tyr Leu Cys Lys Lys Thr His Leu Val Leu Ser Asp Thr Glu
 500 505 510

Ser Gly Cys Gln Lys Gly Trp Glu Arg His Gly Lys Phe Cys Tyr Lys
 515 520 525

Ile Asp Thr Val Leu Arg Ser Phe Asp His Ala Ser Ser Gly Tyr Tyr
 530 535 540

Cys Pro Pro Ala Leu Ile Thr Ile Thr Ser Arg Phe Glu Gln Ala Phe
 545 550 555 560

Ile Thr Ser Leu Ile Ser Ser Val Val Lys Thr Lys Asp Thr Tyr Phe
 565 570 575

Trp Ile Ala Leu Gln Asp Gln Asn Asn Thr Gly Glu Tyr Thr Trp Lys
 580 585 590

Thr Ala Gly Gln Gln Leu Glu Pro Val Lys Tyr Thr His Trp Asn Thr
 595 600 605

Arg Gln Pro Arg Tyr Ser Gly Gly Cys Val Val Met Arg Gly Arg Ser
 610 615 620

His Pro Gly Arg Trp Glu Val Arg Asp Cys Arg His Phe Lys Ala Met
 625 630 635 640

Ser Leu Cys Lys Gln Pro Val Glu Asn Arg Glu Lys Thr Lys Gln Glu
 645 650 655

Glu Gly Trp Pro Phe His Pro Cys Tyr Leu Asp Trp Glu Ser Glu Pro

660	665	670
Gly Leu Ala Ser Cys Phe Lys Val Phe His Ser Glu Lys Val Leu Met 675 680 685		
Lys Arg Thr Trp Arg Gln Ala Glu Glu Phe Cys Glu Glu Phe Gly Ala 690 695 700		
His Leu Ala Ser Phe Ala His Ile Glu Glu Glu Asn Phe Val Asn Glu 705 710 715 720		
Leu Leu His Ser Lys Phe Asn Arg Thr Glu Glu Arg Gln Phe Trp Ile 725 730 735		
Gly Phe Asn Lys Arg Asn Pro Leu Asn Ala Gly Ser Trp Glu Trp Ser 740 745 750		
Asp Gly Thr Pro Val Val Ser Ser Phe Leu Asp Asn Ser Tyr Phe Gly 755 760 765		
Glu Asp Ala Arg Asn Cys Ala Val Tyr Lys Ala Asn Lys Thr Leu Leu 770 775 780		
Pro Ser Tyr Cys Gly Ser Lys Arg Glu Trp Ile Cys Lys Ile Pro Arg 785 790 795 800		
Asp Val Arg Pro Lys Val Pro Pro Trp Tyr Gln Tyr Asp Ala Pro Trp 805 810 815		
Leu Phe Tyr Gln Asp Ala Glu Tyr Leu Phe His Ile Ser Ala Ser Glu 820 825 830		
Trp Ser Ser Phe Glu Phe Val Cys Gly Trp Leu Arg Ser Asp Ile Leu 835 840 845		
Thr Ile His Ser Ala His Glu Gln Glu Phe Ile His Ser Lys Ile Arg 850 855 860		
Ala Leu Ser Lys Tyr Gly Val Asn Trp Trp Ile Gly Leu Arg Glu Glu 865 870 875 880		
Arg Ala Ser Asp Glu Phe Arg Trp Arg Asp Gly Ser Pro Val Ile Tyr 885 890 895		

Gln Asn Trp Asp Lys Gly Lys Glu Arg Ser Met Gly Leu Asn Glu Ser
900 905 910

Gln Arg Cys Gly Phe Ile Ser Ser Ile Thr Gly Leu Trp Ala Ser Glu
915 920 925

Glu Cys Ser Ile Ser Met Pro Ser Ile Cys Lys Arg Lys Lys Val Trp
930 935 940

Val Ile Glu Lys Lys Lys Asp Ile Pro Lys Gln His Gly Thr Cys Pro
945 950 955 960

Lys Gly Trp Leu Tyr Phe Asp Tyr Lys Cys Leu Leu Leu Lys Ile Pro
965 970 975

Glu Gly Pro Ser Asp Trp Lys Asn Trp Thr Ser Ala Gln Asp Phe Cys
980 985 990

Val Glu Glu Gly Gly Thr Leu Val Ala Ile Glu Asn Glu Val Glu Gln
995 1000 1005

Ala Phe Ile Thr Met Asn Leu Phe Gly His Thr Thr Asn Val Trp
1010 1015 1020

Ile Gly Leu Gln Asp Asp Asp Tyr Glu Lys Trp Leu Asn Gly Arg
1025 1030 1035

Pro Val Ser Tyr Ser Asn Trp Ser Pro Phe Asp Thr Lys Asn Ile
1040 1045 1050

Pro Asn His Asn Thr Thr Glu Val Gln Lys Arg Ile Pro Leu Cys
1055 1060 1065

Gly Leu Leu Ser Asn Asn Pro Asn Phe His Phe Thr Gly Lys Trp
1070 1075 1080

Tyr Phe Asp Cys Arg Glu Gly Tyr Gly Phe Val Cys Glu Lys Met
1085 1090 1095

Gln Asp Ala Ser Gly His Ser Ile Asn Thr Ser Asp Met Tyr Pro
1100 1105 1110

Ile	Pro	Asn	Thr	Leu	Glu	Tyr	Gly	Asn	Arg	Thr	Tyr	Lys	Ile	Ile
1115						1120					1125			
Asn	Ala	Asn	Met	Thr	Trp	Tyr	Thr	Ala	Leu	Lys	Thr	Cys	Leu	Met
1130						1135					1140			
His	Gly	Ala	Glu	Leu	Ala	Ser	Ile	Thr	Asp	Gln	Tyr	His	Gln	Ser
1145						1150					1155			
Phe	Leu	Thr	Val	Ile	Leu	Asn	Arg	Val	Gly	Tyr	Ala	His	Trp	Ile
1160						1165					1170			
Gly	Leu	Phe	Thr	Glu	Asp	Asn	Gly	Leu	Ser	Phe	Asp	Trp	Ser	Asp
1175						1180					1185			
Gly	Thr	Lys	Ser	Ser	Phe	Thr	Phe	Trp	Lys	Asp	Asp	Glu	Ser	Ser
1190						1195					1200			
Phe	Leu	Gly	Asp	Cys	Val	Phe	Ala	Asp	Thr	Ser	Gly	Arg	Trp	Ser
1205						1210					1215			
Ser	Thr	Ala	Cys	Glu	Ser	Tyr	Leu	Gln	Gly	Ala	Ile	Cys	Gln	Val
1220						1225					1230			
Pro	Thr	Glu	Thr	Arg	Leu	Ser	Gly	Arg	Leu	Glu	Leu	Cys	Ser	Glu
1235						1240					1245			
Thr	Ser	Ile	Pro	Trp	Ile	Lys	Phe	Lys	Ser	Asn	Cys	Tyr	Ser	Phe
1250						1255					1260			
Ser	Thr	Val	Leu	Glu	Ser	Thr	Ser	Phe	Glu	Ala	Ala	His	Glu	Phe
1265						1270					1275			
Cys	Lys	Lys	Lys	Gly	Ser	Asn	Leu	Leu	Thr	Ile	Lys	Asp	Glu	Ala
1280						1285					1290			
Glu	Asn	Ser	Phe	Leu	Leu	Glu	Glu	Leu	Leu	Ala	Phe	Arg	Ser	Ser
1295						1300					1305			
Val	Gln	Met	Ile	Trp	Leu	Asn	Ala	Gln	Phe	Asp	Gly	Asp	Asn	Glu
1310						1315					1320			

Thr Ile Lys Trp Phe Asp Gly Thr Pro Thr Asp Gln Ser Asn Trp
 1325 1330 1335

Gly Ile Arg Lys Pro Glu Val Tyr His Phe Lys Pro His Leu Cys
 1340 1345 1350

Val Ala Leu Arg Ile Pro Glu Gly Val Trp Gln Leu Ser Ser Cys
 1355 1360 1365

Gln Asp Lys Lys Gly Phe Ile Cys Lys Met Glu Ala Asp Ile His
 1370 1375 1380

Thr Val Lys Lys His Pro Gly Lys Gly Pro Ser His Ser Val Ile
 1385 1390 1395

Pro Leu Thr Val Ala Leu Thr Leu Leu Val Ile Leu Ala Ile Ser
 1400 1405 1410

Thr Leu Ser Phe Cys Met Tyr Lys His Ser His Ile Ile Phe Gly
 1415 1420 1425

Arg Leu Ala Gln Phe Arg Asn Pro Tyr Tyr Pro Ser Ala Asn Phe
 1430 1435 1440

Ser Thr Val His Leu Glu Glu Asn Ile Leu Ile Ser Asp Leu Glu
 1445 1450 1455

Lys Asn Asp Gln
 1460

<210> 5

<211> 1457

<212> PRT

<213> Homo sapiens

<220>

<223> Macrophage mannose receptor

<400> 5

Met Arg Leu Pro Leu Leu Leu Val Phe Ala Ser Val Ile Pro Gly Ala
 1 5 10 15

Val Leu Leu Leu Asp Thr Arg Gln Phe Leu Ile Tyr Asn Glu Asp His
 20 25 30

Lys Arg Cys Val Asp Ala Val Ser Pro Ser Ala Val Gln Thr Ala Ala
 35 40 45
 Cys Asn Gln Asp Ala Glu Ser Gln Lys Phe Arg Trp Val Ser Glu Ser
 50 55 60
 Gln Ile Met Ser Val Ala Phe Lys Leu Cys Leu Gly Val Pro Ser Lys
 65 70 75 80
 Thr Asp Trp Val Ala Ile Thr Leu Tyr Ala Cys Asp Ser Lys Ser Glu
 85 90 95
 Phe Gln Lys Trp Glu Cys Lys Asn Asp Thr Leu Leu Gly Ile Lys Gly
 100 105 110
 Glu Asp Leu Phe Phe Asn Tyr Gly Asn Arg Gln Glu Lys Asn Ile Met
 115 120 125
 Leu Tyr Lys Gly Ser Gly Leu Trp Ser Arg Trp Lys Ile Tyr Gly Thr
 130 135 140
 Thr Asp Asn Leu Cys Ser Arg Gly Tyr Glu Ala Met Tyr Thr Leu Leu
 145 150 155 160
 Gly Asn Ala Asn Gly Ala Thr Cys Ala Phe Pro Phe Lys Phe Glu Asn
 165 170 175
 Lys Trp Tyr Ala Asp Cys Thr Ser Ala Gly Arg Ser Asp Gly Trp Leu
 180 185 190
 Trp Cys Gly Thr Thr Thr Asp Tyr Asp Thr Asp Lys Leu Phe Gly Tyr
 195 200 205
 Cys Pro Leu Lys Phe Glu Gly Ser Glu Ser Leu Trp Asn Lys Asp Pro
 210 215 220
 Leu Thr Ser Val Ser Tyr Gln Ile Asn Ser Lys Ser Ala Leu Thr Trp
 225 230 235 240
 His Gln Ala Arg Lys Ser Cys Gln Gln Gln Asn Ala Glu Leu Leu Ser
 245 250 255
 Ile Thr Glu Ile His Glu Gln Thr Tyr Leu Thr Gly Leu Thr Ser Ser

260	265	270
Leu Thr Ser Gly Leu Trp Ile Gly Leu Asn Ser Leu Ser Phe Asn Ser		
275	280	285
Gly Trp Gln Trp Ser Asp Arg Ser Pro Phe Arg Tyr Leu Asn Trp Leu		
290	295	300
Pro Gly Ser Pro Ser Ala Glu Pro Gly Lys Ser Cys Val Ser Leu Asn		
305	310	315
Pro Gly Lys Asn Ala Lys Trp Glu Asn Leu Glu Cys Val Gln Lys Leu		
	325	330
Gly Tyr Ile Cys Lys Lys Gly Asn Thr Thr Leu Asn Ser Phe Val Ile		
	340	345
Pro Ser Glu Ser Asp Val Pro Thr His Cys Pro Ser Gln Trp Trp Pro		
	355	360
Tyr Ala Gly His Cys Tyr Lys Ile His Arg Asp Glu Lys Lys Ile Gln		
370	375	380
Arg Asp Ala Leu Thr Thr Cys Arg Lys Glu Gly Gly Asp Leu Thr Ser		
385	390	395
Ile His Thr Ile Glu Glu Leu Asp Phe Ile Ile Ser Gln Leu Gly Tyr		
	405	410
Glu Pro Asn Asp Glu Leu Trp Ile Gly Leu Asn Asp Ile Lys Ile Gln		
	420	425
Met Tyr Phe Glu Trp Ser Asp Gly Thr Pro Val Thr Phe Thr Lys Trp		
435	440	445
Leu Arg Gly Glu Pro Ser His Glu Asn Asn Arg Gln Glu Asp Cys Val		
450	455	460
Val Met Lys Gly Lys Asp Gly Tyr Trp Ala Asp Arg Gly Cys Glu Trp		
465	470	475
Pro Leu Gly Tyr Ile Cys Lys Met Lys Ser Arg Ser Gln Gly Pro Glu		
	485	490
		495

Ile	Val	Glu	Val	Glu	Lys	Gly	Cys	Arg	Lys	Gly	Trp	Lys	Lys	His	His		
			500					505					510				
Phe	Tyr	Cys	Tyr	Met	Ile	Gly	His	Thr	Leu	Ser	Thr	Phe	Ala	Glu	Ala		
		515					520					525					
Asn	Gln	Thr	Cys	Asn	Asn	Glu	Asn	Ala	Tyr	Leu	Thr	Thr	Ile	Glu	Asp		
	530					535					540						
Arg	Tyr	Glu	Gln	Ala	Phe	Leu	Thr	Ser	Phe	Val	Gly	Leu	Arg	Pro	Glu		
545					550					555					560		
Lys	Tyr	Phe	Trp	Thr	Gly	Leu	Ser	Asp	Ile	Gln	Thr	Lys	Gly	Thr	Phe		
				565					570					575			
Gln	Trp	Thr	Ile	Glu	Glu	Glu	Val	Arg	Phe	Thr	His	Trp	Asn	Ser	Asp		
			580					585					590				
Met	Pro	Gly	Arg	Lys	Pro	Gly	Cys	Val	Ala	Met	Arg	Thr	Gly	Ile	Ala		
		595					600					605					
Gly	Gly	Leu	Trp	Asp	Val	Leu	Lys	Cys	Asp	Glu	Lys	Ala	Lys	Phe	Val		
	610					615					620						
Cys	Lys	His	Trp	Ala	Glu	Gly	Val	Thr	His	Pro	Pro	Lys	Pro	Thr	Thr		
625					630					635					640		
Thr	Pro	Glu	Pro	Lys	Cys	Pro	Glu	Asp	Trp	Gly	Ala	Ser	Ser	Arg	Thr		
				645					650					655			
Ser	Leu	Cys	Phe	Lys	Leu	Tyr	Ala	Lys	Gly	Lys	His	Glu	Lys	Lys	Thr		
			660					665					670				
Trp	Phe	Glu	Ser	Arg	Asp	Phe	Cys	Arg	Ala	Leu	Gly	Gly	Asp	Leu	Ala		
		675					680					685					
Ser	Ile	Asn	Asn	Lys	Glu	Glu	Gln	Gln	Thr	Ile	Trp	Arg	Leu	Ile	Thr		
	690					695					700						
Ala	Ser	Gly	Ser	Tyr	His	Lys	Leu	Phe	Trp	Leu	Gly	Leu	Thr	Tyr	Gly		
705					710					715					720		

Ser Pro Ser Glu Gly Phe Thr Trp Ser Asp Gly Ser Pro Val Ser Tyr
725 730 735

Glu Asn Trp Ala Tyr Gly Glu Pro Asn Asn Tyr Gln Asn Val Glu Tyr
740 745 750

Cys Gly Glu Leu Lys Gly Asp Pro Thr Met Ser Trp Asn Asp Ile Asn
755 760 765

Cys Glu His Leu Asn Asn Trp Ile Cys Gln Ile Gln Lys Gly Gln Thr
770 775 780

Pro Lys Pro Glu Pro Thr Pro Ala Pro Gln Asp Asn Pro Pro Val Thr
785 790 795 800

Glu Asp Gly Trp Val Ile Tyr Lys Asp Tyr Gln Tyr Tyr Phe Ser Lys
805 810 815

Glu Lys Glu Thr Met Asp Asn Ala Arg Ala Phe Cys Lys Arg Asn Phe
820 825 830

Gly Asp Leu Val Ser Ile Gln Ser Glu Ser Glu Lys Lys Phe Leu Trp
835 840 845

Lys Tyr Val Asn Arg Asn Asp Ala Gln Ser Ala Tyr Phe Ile Gly Leu
850 855 860

Leu Ile Ser Leu Asp Lys Lys Phe Ala Trp Met Asp Gly Ser Lys Val
865 870 875 880

Asp Tyr Val Ser Trp Ala Thr Gly Glu Pro Asn Phe Ala Asn Glu Asp
885 890 895

Glu Asn Cys Val Thr Met Tyr Ser Asn Ser Gly Phe Trp Asn Asp Ile
900 905 910

Asn Cys Gly Tyr Pro Asn Ala Phe Ile Cys Gln Arg His Asn Ser Ser
915 920 925

Ile Asn Ala Thr Thr Val Met Pro Thr Met Pro Ser Val Pro Ser Gly
930 935 940

Cys Lys Glu Gly Trp Asn Phe Tyr Ser Asn Lys Cys Phe Lys Ile Phe
 945 950 955 960

Gly Phe Met Glu Glu Glu Arg Lys Asn Trp Gln Glu Ala Arg Lys Ala
 965 970 975

Cys Ile Gly Phe Gly Gly Asn Leu Val Ser Ile Gln Asn Glu Lys Glu
 980 985 990

Gln Ala Phe Leu Thr Tyr His Met Lys Asp Ser Thr Phe Ser Ala Trp
 995 1000 1005

Thr Gly Leu Asn Asp Val Asn Ser Glu His Thr Phe Leu Trp Thr
 1010 1015 1020

Asp Gly Arg Gly Val His Tyr Thr Asn Trp Gly Lys Gly Tyr Pro
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Gly Gly Arg Arg Ser Ser Leu Ser Tyr Glu Asp Ala Asp Cys Val
 1040 1045 1050

Val Ile Ile Gly Gly Ala Ser Asn Glu Ala Gly Lys Trp Met Asp
 1055 1060 1065

Asp Thr Cys Asp Ser Lys Arg Gly Tyr Ile Cys Gln Thr Arg Ser
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Asp Pro Ser Leu Thr Asn Pro Pro Ala Thr Ile Gln Thr Asp Gly
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Phe Val Lys Tyr Gly Lys Ser Ser Tyr Ser Leu Met Arg Gln Lys
 1100 1105 1110

Phe Gln Trp His Glu Ala Glu Thr Tyr Cys Lys Leu His Asn Ser
 1115 1120 1125

Leu Ile Ala Ser Ile Leu Asp Pro Tyr Ser Asn Ala Phe Ala Trp
 1130 1135 1140

Leu Gln Met Glu Thr Ser Asn Glu Arg Val Trp Ile Ala Leu Asn
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Ser Asn Leu Thr Asp Asn Gln Tyr Thr Trp Thr Asp Lys Trp Arg

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Ala Cys Val Tyr Leu Asp	Leu 1195	Asp Gly Tyr Trp	Lys 1200	Thr Ala His
Cys Asn Glu Ser Phe Tyr	Phe 1210	Leu Cys Lys Arg	Ser 1215	Asp Glu Ile
Pro Ala Thr Glu Pro Pro	Gln 1225	Leu Pro Gly Arg	Cys 1230	Pro Glu Ser
Asp His Thr Ala Trp Glu	Ile 1240	Pro Phe His Gly	His 1245	Cys Tyr Tyr
Ile Glu Ser Ser Tyr Thr	Arg 1255	Asn Trp Gly Gln	Ala 1260	Ser Leu Glu
Cys Leu Arg Met Gly Ser	Ser 1270	Leu Val Ser Ile	Glu 1275	Ser Ala Ala
Glu Ser Ser Phe Leu Ser	Tyr 1285	Arg Val Glu Pro	Leu 1290	Lys Ser Lys
Thr Asn Phe Trp Ile Gly	Leu 1300	Phe Arg Asn Val	Glu 1305	Gly Thr Trp
Leu Trp Ile Asn Asn Ser	Pro 1315	Val Ser Phe Val	Asn 1320	Trp Asn Thr
Gly Asp Pro Ser Gly Glu	Arg 1330	Asn Asp Cys Val	Ala 1335	Leu His Ala
Ser Ser Gly Phe Trp Ser	Asn 1345	Ile His Cys Ser	Ser 1350	Tyr Lys Gly
Tyr Ile Cys Lys Arg Pro	Lys 1360	Ile Ile Asp Ala	Lys 1365	Pro Thr His
Glu Leu Leu Thr Thr Lys	Ala 1375	Asp Thr Arg Lys	Met 1380	Asp Pro Ser

Lys Pro Ser Ser Asn Val Ala Gly Val Val Ile Ile Val Ile Leu
 1385 1390 1395

Leu Ile Leu Thr Gly Ala Gly Leu Ala Ala Tyr Phe Phe Tyr Lys
 1400 1405 1410

Lys Arg Arg Val His Leu Pro Gln Glu Gly Ala Phe Glu Asn Thr
 1415 1420 1425

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